ABSTRACT

An integrated circuit which includes at least one DC to DC converter for receiving a supply voltage level and producing at least one intermediate voltage level which is greater than the supply voltage level. The integrated circuit also includes processing circuitry for receiving at least one time-varying input voltage signal and increasing a level of the time-varying voltage signal. The processing circuitry can include analog or digital circuitry or a combination of both analog and digital circuitry, and the time-varying input voltage signal can be an analog signal or a digital signal. The integrated voltage boost power supply can output the increased time-varying voltage signal and a plurality of DC voltages.

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